

Test of "BatMax", the ex-OEM version by Singapore Test Services Pte Ltd.

Element Testing Services (S) Pte Ltd, formerly known as Singapore Test Services (STS), is a pioneer in testing, inspection, calibration, certification, and training services based in Singapore. Founded in 1980, the company operated as a major subsidiary of [ST Engineering Land Systems](#) before being acquired by the global testing giant [Element Materials Technology Group](#) in August 2022.

The product's performance was successfully tested by the Electrical Laboratory of Singapore Test Services on 2005.10.14.

The results of the Singapore Test Services Pte Ltd. "Standby Time Test" measurements are filed under the report reference number 12284-1105-CMDE6409.

The ex-OEM version of AkkuFresh® foil was tested by the Singapore Test Services Pte Ltd. The battery discharge curves showed that there was an increase in standby time from 20 hours 47 min to about 25 hours 43 min when a battery with our foil technology was used on the Siemens M55 handphone.

Similarly, there was an increase of standby time from 16 hours 28 min to about 22 hours 29 min for the Siemens 357 handphone.

The Singapore Test Services Pte Ltd. testing has clearly proved the effectiveness of the original nanotech battery life foil technology now called AkkuFresh® Next Generation™!

The "BatMax" brand was originally produced in our factory between 2003 and 2005 and sold by World Corporation Services Inc. (director: Alain Aisenberg, Miami, Florida) in the USA. The company was registered in 2004 January 23 in Florida. In 2004, the USA company started to fake our original product. The fake products looked like the original product without the original performance.



In 2005, our manufactory revoked the distribution rights from the US company.

Since 2006 April 18 World Corporation Services Inc., BatMax Corporation, and “BatMax “ as a brand are no longer on the market.

Since November 2006, AkkuFresh® Next Generation™ has been the only original product on the market.

The effect and performance of AkkuFresh® Next Generation™ depend on several factors: Type of device (mobile phone/notebook/camera / etc.), brand, model, type of battery, age, status (total amount of charging-discharging cycles), external temperature, environmental conditions, and cellular network.



Singapore Test Services Pte Ltd

A company of Singapore Technologies Kinetics

Jurong Head Office:
249 Jalan Boon Lay
Singapore 619523
Tel: 6880 7271 / 6880 7322
Fax: 6261 2617
Website: www.test.com.sg
E-mail: sts@ststest.com.sg
(Regn. No.: 1300042190)

Bukit Timah Branch Office:
601 Fille Range Road
Singapore 588398
Tel: 6460 9171
Fax: 6469 3842

Report Title: Discharge Time Test for BatMax Evaluation	Report No: 12284-1105-CMDE6409
	Page 1 of 6
Client Name: Speed One Communications (S) Pte Ltd 8A Mayo Street Singapore 208308	Client Reference: Order No. : --
Attention to: Mr Cheman Yap	Date: 15 November 2005

Summary

Two handphones each with a battery were submitted by the client to ascertain if the used batteries' life will be extended with installation of BatMax – a battery life booster.

Measurements were conducted from 10th to 14th October 2005 at the Electrical Laboratory of Singapore Test Services.

All data taken are as shown tabulated inside.

The battery discharge curves showed that there was an increase in standby time from 20 hr 47min to about 25 hr 43 min when battery with BatMax was used on the of the Siemens M55 handphone.

Similarly, there was an increase of standby time from from 16 hr 28 min to about 22 hr 29 min for the Siemens 357 handphone.



Work carried out by : Yew Geok Ann	Reported by :  Chua Meng Choon Senior Engineer Singapore Test Services
--	--



FIND US ON



Singapore Test Services Pte Ltd A company of Singapore Technologies Kinetics	Report No: 12284-1105-CMDE6409	Page No: 2 of 6
---	--	---------------------------

1. INTRODUCTION

Client supplies a battery life booster known as the BatMax - which is claimed to increase battery stand-by time and talk time. It is designed to regenerate the battery to help it recover its original performance. It also maintains the maximum capacity, reduces the charging time and extends the life span.

A sample, which was already affixed to a used handphone battery, was submitted by client. Please see Figure 1 below for a picture of the BatMax pasted onto a handphone battery.



Figure 1. BatMax pasted over supplied handphone battery on right

Tests were conducted from 10th to 14th October 2005 in the Electrical Laboratory of Singapore Test Services to evaluate the BatMax performance.

2. OBJECTIVE

The objective of the measurement is to determine the stand-by time of a handphone when it is powered by a used and fully charged battery without BatMax and then with BatMax.

3. TEST SAMPLES

The following were supplied by client for the test :

3.1	Siemens Handphone	Model 357	1 pc (S/N S30880-55700-5805-1)
3.2	Siemens Handphone	Model M55	1 pc (S/N S30880-S6320-5803-1)
3.3	Battery		1 pc (with BatMax pasted)
3.4	Battery		1 pc (without BatMax pasted)
3.5	Power Adapter / Charger		1 pc

See Figure 2 for the handphone models supplied.





Singapore Test Services Pte Ltd A company of Singapore Technologies Kinetics	Report No: 12284-1105-CMDE6409	Page No: 3 of 6
---	-----------------------------------	--------------------

Fig. 2 Handphones supplied. (M55 model on left)

4. **EQUIPMENT USED**

The following equipment were used in the conduct of the test.

4.1 Fluke 199C Scope Meter S/No. DM8700077 Calibration Date : 27/09/05

5. **TEST PROCEDURES**

5.1 The instrumentation setup is as shown in Figure 3.

Fig. 3 Wiring to Handphones Battery Terminals

5.1 In order to measure the discharge voltage, thin instrumentation wires are connected to the battery terminals of the handphone.



Singapore Technologies Engineering



Singapore Test Services Pte Ltd A company of Singapore Technologies Kinetics	Report No: 12284-1105-CMDE6409	Page No: 4 of 6
---	--	---------------------------

5.2 The other end of the wires are then connected to the input of the Scopemeter.

5.3 Prior to start of test, all batteries used are left to discharge as much as possible.

5.4 After that, the batteries in the respective handphone are charged up with the charger to more than an hour one at a time to full charge.

5.5 The test then commences with the turning on of the handphone.

5.6 The handphone has no SIM card inside nor is it set to any alarm mode or power-saving mode to ensure consumption of power with as little variation as possible.

5.7 For each handphone, the discharge time evaluation is first conducted with the battery not pasted with BatMax. Then it is next conducted with the battery with BatMax pasted on it.

5.8 All data are recorded on the Scopemeter set to trend recording mode.

5.9 The data and the ensuing discharge voltage vs time curves are then generated.

6. RESULTS

6.1 Results of all measurements are as shown in Table 1.

Table 1. Discharge Time

Handphone Model	Discharge Time (without BatMax)	Discharge Time (with BatMax)	Difference
357	16 hr 28 min	22 hr 29 min	4 hr 01 min
M55	20 hr 47 min	25 hr 43 min	4 hr 56 min

6.2 The discharge time is taken from turning on of battery to when the handphone powers off (screen blank).

6.2 The discharge voltage vs time curves are generated for each test as shown in Figures 4 to 7.

7. CONCLUSION

The recorded tests showed that there was an increase in standby time from 16 hr 28 min to about 22 hr 29 min when battery with BatMax was used on the of the Siemens 357 handphone.

Similarly, there was an increase of standby time from 20 hr 47min to 25 hr 43 min for the Siemens M55 handphone.





FIND US ON



**Singapore Test
Services Pte Ltd**

A company of Singapore Technologies Kinetics

Report No:

12284-1105-CMDE6409

Page No:

5 of 6

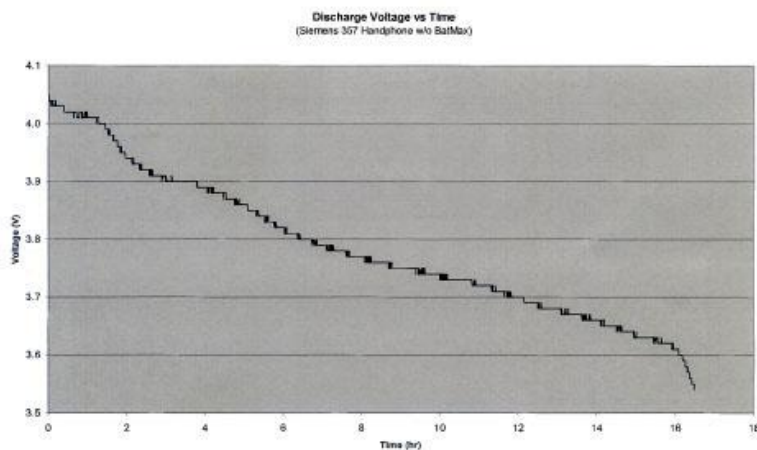


Figure 4. Discharge Voltage vs Time Curve of Siemens 357 Handphone without BatMax.

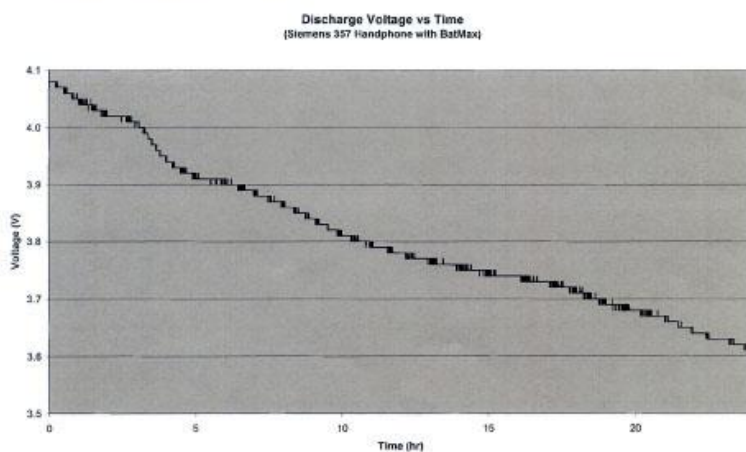


Figure 5. Discharge Voltage vs Time Curve of Siemens 357 Handphone with BatMax.



FIND US ON



**Singapore Test
Services Pte Ltd**

A company of Singapore Technologies Kinetics

Report No:

12284-1105-CMDE6409

Page No:

6 of 6

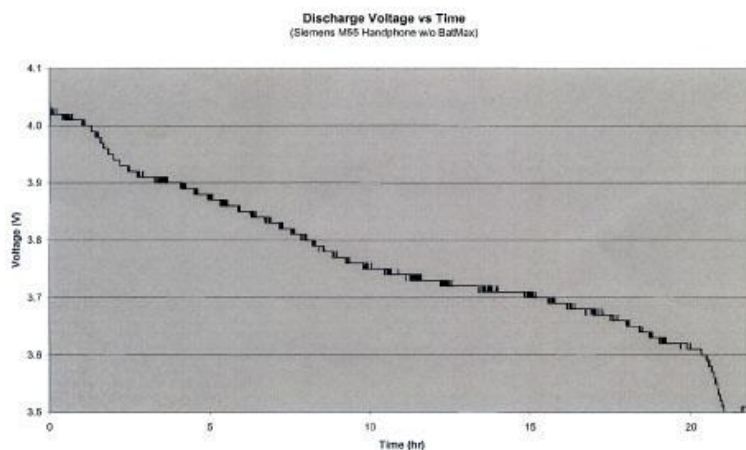


Figure 6. Discharge Voltage vs Time Curve of Siemens M55 Handphone without BatMax.

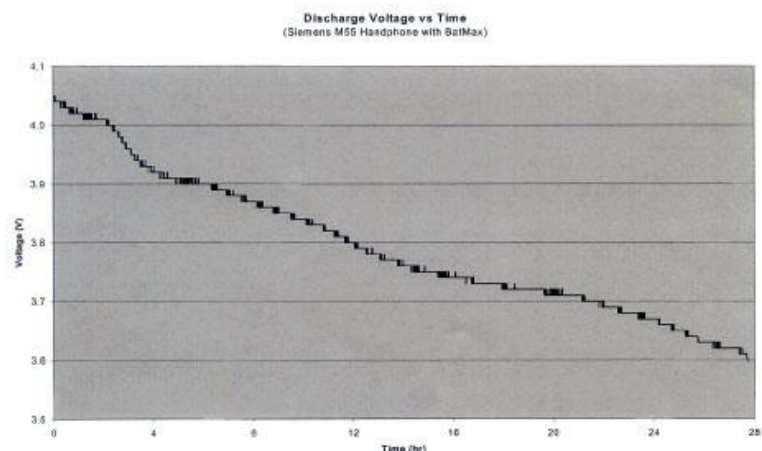


Figure 7. Discharge Voltage vs Time Curve of Siemens M55 Handphone with BatMax.



Singapore Technologies
Engineering



FIND US ON

